NP900-B16C
Basic COM Express Board

PROCESSOR
- Intel® Atom™ N270 processor
- 1.6GHz core frequency, 1.10V voltage
- 2.5W thermal design power
- 512KB on-die second level cache
- 533MHz FSB
- 22x22 mm, 1.0 mm ball pitch and 437 balls FCBGA

CHIPSET
- Intel® chipset
  - Intel® 945GSE Graphics Memory Controller Hub (GMCH)
  - Intel® ICH7M I/O Controller Hub

SYSTEM MEMORY
- One 200-pin SODIMM socket (1.8V)
- Supports DDR2 400/533MHz
- Supports up to 2GB system memory

BIOS
- SPI BIOS (8Mbit)

GRAPHICS FEATURES
- Intel® GMA 950
- 133/166MHz internal graphics core render frequency at 1.05V core voltage
- One SDVO port (Port B)
  - SDVO slot reversal not supported
- Supports 18-bit dual-channel LVDS
- Supports CRT resolutions up to SXGA+

DMI
- DMI lane width - x2 only
- DMI lane reversal not supported

LAN FEATURES
- One Realtek RTL8111C PCI Express Gigabit Ethernet controller
- Supports 10Mbps, 100Mbps and 1Gbps data transmission
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

AUDIO FEATURES
- Supports Azalia AC97 interface

EXPANSION INTERFACES
- Supports 4 PCI bus masters interfaces (PCI 2.3 interface)
- Supports 8 USB interfaces (USB 1.1/2.0 host controllers)
- Supports 3 PCIE x1 interfaces

SERIAL ATA INTERFACE
- SATA interface supports data transfer rate up to 1.5Gb/s (150MB/s) per port
- Two SATA ports with independent DMA operation supported on ports 0 and 2
- Two-mode operation supports legacy mode using I/O space or an AHCI mode using memory space
- SATA and PATA can be used in a combined function mode (When SATA is used with PATA, AHCI mode is not supported.)

IDE INTERFACE
- Bus Master IDE (PATA) controller
- Supports up to two IDE devices
- Ultra ATA 100/66/33

TEMPERATURE
- Operating: 0°C to 60°C

HUMIDITY
- Operating: 10% to 90%

POWER
- Input: 12V, 5VSB, VCC_RTC

REGULATORY
- EMC: CE, FCC Part 15 Class B

PCB
- Dimensions
  - Basic COM Express form factor
  - 95mm (3.74") x 125mm (4.9")
- Compliance
  - PICMG COM Express R1.0 basic form factor, Type 2